SEQUENCE LISTING

<110> van den Boom, Dirk
Böcker, Sebastian

<120> FRAGMENTATION-BASED METHODS AND SYSTEMS
FOR SEQUENCE VARIATION DETECTION AND DISCOVERY

<130> 24736-2073

<140> Not yet assigned
<141> 2003-11-26

<150> US 60/429,895
<151> 2002-11-27

<160> 85

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Renin cleavage site

<400> 1
Pro Phe His Leu Leu Val Tyr
1 5

<210> 2
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Factor Xa cleavage site

<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid Except Pro or Arg

<400> 2
Ile Glu Gly Arg Xaa
 1   5

<210> 3
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Factor Xa cleavage site

<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid Except Pro or Arg

<400> 3
Ile Asp Gly Arg Xaa
 1   5

<210> 4
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Factor Xa cleavage site

<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid Except Pro or Arg

<400> 4
Ala Glu Gly Arg Xaa
 1   5

<210> 5
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Collagenase cleavage site

<221> VARIANT
<222> 2, 5
<223> Xaa = Any Amino Acid

<400> 5
Pro Xaa Gly Pro Xaa
1 5

<210> 6
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer for base-specific cleavage

<400> 6
cagtaatacg actcactata gggagaaggc tccccagcaa gacggactt 49

<210> 7
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer for base-specific cleavage

<400> 7
aggaagagag cgcctcggca aagtacac 28

<210> 8
<211> 340
<212> DNA

<213> Artificial Sequence

<220>
<223> Amplicon for base-specific cleavage

<400> 8
gggagaaggc tccccagcaa gacggacttc ttcaaaaaca tcatgaactt catagacatt 60
gtggccatca ttccttattt catcacgctg ggcaccgaga tagctgagca ggaaggaaac 120
cagaagggcg agcaggccac ctccctggcc atcctcaggg tcatccgctt ggtaagggtt 180
tttagaatct tcaagctctc ccgccactct aagggcctcc agatcctggg ccagaccctc 240
aaagctagta tgagagagct agggctgctc atcttttttcc tcttcatcgg ggtcatcctg 300
ttttctagtg cagtgtactt tgccgaggcg ctctcttcct 340

<210> 9
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer for partial cleavage

<221> modified_base
<222> 1
<223> Biotinylated

<400> 9
cccagtcacg acgttgtaaa acg 23

<210> 10
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer for partial cleavage

<400> 10
agcggataac aatttcacac agg 23

<210> 11
<211> 117
<212> DNA

<213> Artificial Sequence

<220>
<223> Amplicon for partial cleavage

<400> 11
cccagtcacg acgttgtaaa acgtccaggg aggactcacc atgggcattt gattgcagag 60
cagctccgag tccatccaga gcttcctgca gtcacctgtg tgaaattgtt atccgct 117

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Reference sequence

<221> misc_feature
<222> 11
<223> n = C or A

<221> misc_feature
<222> 1, 2, 3, 8, 9, 10, 12, 13, 14, 19, 20, 21
<223> n = A,T,C or G

<400> 12
nnnactgnnn nnnntgacnn n 21

<210> 13
<211> 583
<212> DNA
<213> Artificial Sequence

<220>
<223> CETP Amplicon

<400> 13
cttcagtgct cacaccgacc ctatgagtgg ggcggtcaaa ctgtccccat tttacacaca 60
gggaaactta gtgaatggca aggctgggtt tgagcccagc tctattgccc ccaaagataa 120
ggctccattc cctgctccat ttcccaggca tagggacttg taggggctg gaaccccagg 180
atcaactctg ggctcagagg gccccagcaa taagtgactg ttgattactc ctgatcccaa 240
agctgacttc aggcaagctc cttggaggtc gcagcccctt cttgctatgc ccagtggcaa 300

tgatgttcat aatcccactc ctcagtgcag ggttccacta agaacccatg atctcctacc 360
tcaaatggac ctcatgcttt ctgagtaagc ctccctcagc tttctggtca cctcactccc 420
cccacccact gcaatgactt cttcaggcct tccctgccat cctcaaatct ccagctgccc 480
cctcctgtct accttccact tccctctcca cacacaacct gcttaccaga gagctgagca 540
gagccaccaa cagaacttcc cccccacgtc gctgctccca gtc 583

<210> 14
<211> 483
<212> DNA
<213> Mycobacterium abscessus

<300>
<308> EMBL Accession No. AJ536038

<400> 14
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tctaataccg gataggacca cacacttcat ggtgagtggt gcaaagcttt tgcggtgtgg 120
gatgagcccg cggcctatca gcttgttggt ggggtaatgg cccaccaagg cgacgacggg 180
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ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
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acctacagaa gaaggaccgg ccaactacgt gccagcagcc gcggtaatac gtagggtccg 420
agcgttgtcc ggaattactg ggcgtaaaga gctcgtaggt ggtttgtcgc gttgttcgtg 480
aaa 483

<210> 15
<211> 495
<212> DNA
<213> Mycobacterium avium

<300>
<308> EMBL Accession No. AJ536037

<400> 15
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tctaataccg gataggacct caagacgcat gtcttctggt ggaaagcttt tgcggtgtgg 120
gatgggcccg cggcctatca gcttgttggt ggggtgacgg cctaccaagg cgacgacggg 180
tagccggcct gagagggtgt ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaaggtc cgggttttct 360
cggattgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtagggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480

gcgttgttcg tgaaa 495

<210> 16
<211> 495
<212> DNA
<213> Mycobacterium celatum

<300>
<308> EMBL Accession No. AJ536040

<400> 16
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tctaataccg gataggacca tgggatgcat gtcttgtggt ggaaagcttt tgcggtgtgg 120
gatgggcccg cggcctatca gcttgttggt ggggtgatgg cctaccaagg cgacgacggg 180
tagccggcct gagagggtgt ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaagctg ccggttttcc 360
ggtggtgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtagggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
gcgttgttcg tgaaa 495

<210> 17
<211> 483
<212> DNA
<213> Mycobacterium fortuitum

<300>
<308> EMBL Accession No. AJ536039

<400> 17
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tctaataccg aatatgacca cgcgcttcat ggtgtgtggt ggaaagcttt tgcggtgtgg 120
gatgggcccg cggcctatca gcttgttggt ggggtaatgg cctaccaagg cgacgacggg 180
tagccggcct gagagggtga ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
agggatgacg gccttcgggt tgtaaacctc tttcaatagg gacgaagcgc aagtgacggt 360
acctatagaa gaaggaccgg ccaactacgt gccagcagcc gcggtaatac gtagggtccg 420
agcgttgtcc ggaattactg ggcgtaaaga gctcgtaggt ggtttgtcgc gttgttcgtg 480
aaa 483

<210> 18
<211> 495

<212> DNA
<213> Mycobacterium gordonae

<300>
<308> EMBL Accession No. AJ536042

<400> 18
acgggtgagt aacacgtggg taatctgccc tgcacatcgg gataagcctg ggaaactggg 60
tctaataccg aataggacca caggacacat gtcctgtggt ggaaagcttt tgcggtgtgg 120
gatgggcccg cggcctatca gcttgttggt ggggtgatgg cctaccaagg cgacgacggg 180
tagccggcct gagagggtgt ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgaaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaaggtc cgggttttct 360
cgggctgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtagggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
gcgttgttcg tgaaa 495

<210> 19
<211> 495
<212> DNA
<213> Mycobacterium intracellulare

<300>
<308> EMBL Accession No. AJ536036

<400> 19
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tctaataccg gataggacct ttaggcgcat gtctttaggt ggaaagcttt tgcggtgtgg 120
gatgggcccg cggcctatca gcttgttggt ggggtgatgg cctaccaagg cgacgacggg 180
tagccggcct gagagggtgt ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaaggtc cgggttttct 360
cggattgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtagggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
gcgttgttcg tgaaa 495

<210> 20
<211> 495
<212> DNA
<213> Mycobacterium kansasii

<300>

<308> EMBL Accession No. AJ536035

<400> 20
acgggtgagt aacacgtggg caatctgccc tgcacaccgg gataagcctg ggaaactggg 60
tctaataccg gataggacca cttggcgcat gccttgtggt ggaaagcttt tgcggtgtgg 120
gatgggcccg cggcctatca gcttgttggt ggggtgacgg cctaccaagg cgacgacggg 180
tagccggcct gagagggtgt ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaaggtc cgggttctct 360
cggattgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtagggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
gcgttgttcg tgaaa 495

<210> 21
<211> 495
<212> DNA
<213> Mycobacterium marinum

<300>
<308> EMBL Accession No. AJ536032

<400> 21
acgggtgagt aacacgtggg cgatctgccc tgcacttcgg gataagcctg ggaaactggg 60
tctaataccg gataggacca cgggattcat gtcctgtggt ggaaagcttt tgcggtgtgg 120
gatgggcccg cggcctatca gcttgttggt ggggtaacgg cctaccaagg cgacgacggg 180
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ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaaggtt cgggttttct 360
cggattgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtagggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
gcgttgttcg tgaaa 495

<210> 22
<211> 492
<212> DNA
<213> Mycobacterium scrofulaceum

<300>
<308> EMBL Accession No. AJ536034

<400> 22
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tctaataccg gataggacca cttggcgcat gccttgtggt ggaaagcttt tgcggtgtgg 120
gatgggcccg cggcctatca gctagttggt ggggtgatgg cctaccaagg cgacgacggg 180
tagccggcct gagagggtgt ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaaggct cactttgtgg 360
gttgacggta ggtggagaag aagcaccggc caactacgtg ccagcagccg cggtaatacg 420
tagggtgcga gcgttgtccg gaattactgg gcgtaaagag ctcgtaggtg gtttgtcgcg 480
ttgttcgtga aa 492

<210> 23
<211> 485
<212> DNA
<213> Mycobacterium smegmatis

<300>
<308> EMBL Accession No. AJ536041

<400> 23
acgggtgagt aacacgtggg tgatctgccc tgcactttgg gataagcctg ggaaactggg 60
tctaataccg aatacaccct gctggtcgca tggcctggta ggggaaagct tttgcggtgt 120
gggatgggcc cgcggcctat cagcttgttg gtggggtgat ggcctaccaa ggcgacgacg 180
ggtagccggc ctgagagggt gaccggccac actgggactg agatacggcc cagactccta 240
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tgagggatga cggccttcgg gttgtaaacc tctttcagca cagacgaagc gcaagtgacg 360
gtatgtgcag aagaaggacc ggccaactac gtgccagcag ccgcggtaat acgtagggtc 420
cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc gcgttgttcg 480
tgaaa 485

<210> 24
<211> 497
<212> DNA
<213> Mycobacterium tuberculosis

<300>
<308> EMBL Accession No. AJ536031

<400> 24
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tctaataccg gataggacca cgggatgcat gtcttgtggt ggaaagcgct ttagcggtgt 120
gggatgagcc cgcggcctat cagcttgttg gtggggtgac ggcctaccaa ggcgacgacg 180
ggtagccggc ctgagagggt gtccggccac actgggactg agatacggcc cagactccta 240
cgggaggcag cagtggggaa tattgcacaa tgggcgcaag cctgatgcag cgacgccgcg 300

tgggggatga cggccttcgg gttgtaaacc tctttcacca tcgacgaagg tccgggttct 360
ctcggattga cggtaggtgg agaagaagca ccggccaact acgtgccagc agccgcggta 420
atacgtaggg tgcgagcgtt gtccggaatt actgggcgta aagagctcgt aggtggtttg 480
tcgcgttgtt cgtgaaa 497

<210> 25
<211> 499
<212> DNA
<213> Mycobacterium xenopi

<300>
<308> EMBL Accession No. AJ536033

<400> 25
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gtgggatggg cccgcggcct atcagcttgt tggtggggtg atggcctacc aaggcgacga 180
cgggtagccg gcctgagagg gtgtccggcc acactgggac tgagatacgg cccagactcc 240
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<210> 26
<211> 492
<212> DNA
<213> Mycobacterium paraffinicum

<400> 26
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<210> 27
<211> 483

<212> DNA
<213> Mycobacterium interjectum

<400> 27
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agcgttgtcc ggaattactg ggcgtaaaga gctcgtaggt ggtttgtcgc gttgttcgtg 480
aaa 483

<210> 28
<211> 484
<212> DNA
<213> Mycobacterium aurum

<400> 28
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gaaa 484

<210> 29
<211> 1542
<212> DNA
<213> Escherichia coli

<300>
<308> GenBank Accession No. AE000460

<400> 29
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tgtctgggaa actgcctgat ggagggggat aactactgga aacggtagct aataccgcat 180

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ggatgaccag ccacactgga actgagacac ggtccagact cctacgggag gcagcagtgg 360
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1260
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1380
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1440
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1542

<210> 30
<211> 340
<212> DNA
<213> Bordetella avium

<400> 30
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gcctagtagc gggggataac tacgcgaaag cgtagctaat accgcatacg ccctacgggg 180
gaaagcgggg gaccttcggg cctcgcacta ttagagcggc cgatatcgga ttagctagtt 240
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<210> 31
<211> 339
<212> DNA
<213> Bordetella trematum

<400> 31
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gcccagtagc gggggataac tacgcgaaag cgtggctaat accgcatacg ccctacgggg 180
aaagcggggg accttcgggc ctcgcactat tggagcggcc gatatcggat tagctagttg 240
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actgggactg agacacggcc cagactccta cgggaggca 339

<210> 32
<211> 1496
<212> DNA
<213> Bordetella petrii

<220>
<221> misc_feature
<222> 821
<223> n = A,T,C or G

<300>
<308> GenBank Accession No. AJ249861

<400> 32
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1260
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1380
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1440
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1496

<210> 33
<211> 363
<212> DNA
<213> Bordetella strain SHA-1

<400> 33
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gagcgactca ccttccggtg ggggataact gtccgaaagg gcggctaata cctcgtatgc 180
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ggctcgcgcc ccatcagcta gttggcgagg taacggctca ccaaggcaat gacgggtagc 300
tggtctgaga ggatggtcag ccactctggg actgagacac ggcccagact cctacgggag 360
gca 363

<210> 34
<211> 363
<212> DNA
<213> Bordetella strain SHA-110

<400> 34
agagtttgat cctggctcag gacgaacgct ggcggcgtgc ctaacacatg caagtcgaac 60
gcgagtgtct tttttcgtaa gaaaggtgac acttgagtgg cgaacgggtg agtaacacgt 120
gagtaactca ccttccggtg ggggataact gtccgaaagg gtggctaata ccccatatgc 180

tccctgaccg ccgggtcagt gagaaaagtg ggcttcgtaa gaagctcaca ccagaagaga 240
ggctcgcgcc ccatcagctg gttggcgagg taatggctca ccaaggcaat gacgggtagc 300
tggtctgaga ggatggtcag ccacactggg actgagacac ggcccagact cctacgggag 360
gca 363

<210> 35
<211> 343
<212> DNA
<213> Bordetella strain B1-10

<400> 35
agagtttgat catggctcag gatgaacgct ggcggcgtgc ttaatacatg caagtcgaac 60
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ccccgaagag cgggacaaca gaccgaaagg tttgctaata ccgcatgagc tcttgctggc 180
tagagtggca agaggaaagg ccgaaaggcg ctttgggagg ggcctgcgtc ccatcagcta 240
gttggcgggg taacagccca ccaaggcgat gacgggtagg ggacctgaga gggtgacccc 300
ccacaatgga actgaaacac ggtccataca cctacgggtg gca 343

<210> 36
<211> 342
<212> DNA
<213> Bordetella strain B1-12

<400> 36
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ccgaagagcg ggataacaga ccgaaaggac tgctaatacc gcatgagctc tcggcagtta 180
gaggggccga gaggaaaggc cgaaaggcgc tttgggaggg gcctgcgtcc catcagctag 240
ttggcgaggt aagagctcac caaggcgatg acgggtaggg gacctgagag ggtgaccccc 300
cacaatggaa ctgaaacacg gtccatacac ctacgggtgg ca 342

<210> 37
<211> 342
<212> DNA
<213> Bordetella strain B6-52

<400> 37
agagtttgat catggctcag attgaacgct ggcggcatgc tttacacatg caagtcgaac 60
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gcccatttgt gggggataac gcggcgaaag tcgcgctaat accgcatacg ccctgagggg 180
gaaagcgggg gattcttcgg agcctcgcgc aattggagcg gccgatgtca gattagctag 240
ttggtagggt aaaggcctac caaggcgacg atctgtagcg ggtctgagag gatgatccgc 300

cacactggga ctgagacacg gcccagactc ctacgggagg ca 342

<210> 38
<211> 342
<212> DNA
<213> Bordetella strain B6-60

<400> 38
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ggcagcacgg gcttcggcct ggtggcgagt ggcgaacggg tgagtaatgc atcggaacgt 120
gcccatttgt gggggataac gcggcgaaag tcgcgctaat accgcatacg ccctgagggg 180
gaaagcgggg gattcttcgg aacctcgcgc aattggagcg gccgatgtca gattagctag 240
ttggtagggt aaaggcctac caaggcgacg atctgtagcg ggtctgagag gatgatccgc 300
cacactggga ctgagacacg gcccagactc ctacgggagg ca 342

<210> 39
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer TPU1

<400> 39
agagtttgat cmtggctcag 20

<210> 40
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer RTU8

<400> 40
aaggaggtga tccakccrca 20

<210> 41
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer Myko109-T7

<400> 41
gtaatacgac tcactatagg gacgggtgag taacacgt 38

<210> 42
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer R259-SP6

<400> 42
atttaggtga cactatagaa tttcacgaac aacgcgacaa 40

<210> 43
<211> 418
<212> DNA
<213> Artificial Sequence

<220>
<223> IGF2/H19 Amplicon

<400> 43
accatgcctg ctgctccctg cctgccagcg ccctgcacat actttgcaca tggctggggg 60
ccagctgcgg gtccctgggg actcggatgg cacagagggc cccttcctgc caccatcacg 120
gctcagacct cacgttcctg gagagtaggg gtggggtgct gaggggcaga gggaagtgcc 180
gcaaaccccc tggtgggcgc ggtgccagcc ccccaggccg attcccatcc agttgaccga 240
gcttgtgctg gtcaccgcgg tttccgcagg acagagtccc cacagccgct gggcaccccg 300
gtcccattcg cggccacttt cctgtctgaa gaccgcatgt tgccgggctg tgcttacggc 360
tcgcgggcgc actctactga caagcggtgg gcggcctcac agactctccc aggcccgc 418

<210> 44
<211> 269
<212> DNA
<213> Artificial Sequence

<220>
<223> K-Ras Amplicon

<400> 44
cgtccacaaa atgattctga attagctgta tcgtcaaggc actcttgcct acgccaccag 60
ctccaactac cacaagttta tattcagtca ttttcagcag gccttataat aaaaataatg 120
aaaatgtgac tatattagaa catgtcacac ataaggttaa tacactatca aatactccac 180
cagtaccttt taatacaaac tcacctttat atgaaaaatt atttcaaaat accttacaaa 240
attcaatcat gaaaattcca gttgactgc 269

<210> 45
<211> 428
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 1

<221> misc_feature
<222> 123
<223> n = T or C

<400> 45
gggaacatct tgctgctctc agagccagaa aatgctgaca gcctcatgct ggtggacttc 60
gagtacagca gttataacta taggtgaggc tggaaagatg gcttcccata gatctgttcc 120
canagggctc ttgaaaacag gccagctgcc cagggcattt ggggactgaa tgtccacctt 180
attctcccag gggctttgac attgggaacc atttttgtga gtgggtttat gattatactc 240
acgaggaatg gcctttctac aaagcaaggc ccacagacta ccccactcaa gaacagcagg 300
tatgtgggcc agaggctggg gagcaggacc catcctgtga ggaaggaggg aggtggagtc 360
tggaaggaat ggccggaaag gatgttacct gggaaatact ccacagtctc cccaattcct 420
gactcttg 428

<210> 46
<211> 429
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2

<221> misc_feature
<222> 174, 179
<223> n = T or G

<221> misc_feature

<222> 317
<223> n = C or T

<400> 46
cccactactc tgccttcctg ttcagtaact cttacttttg cctgaagtaa cagcatcttc 60
tacttctcca tctagagatt tttgtgtgtg tgccatcaag gttagcaaac tttatacgta 120
gcctaacact taaaaaatgc actcattatc ttaaacctaa taaattccag agtntattnt 180
ggttctcctc tgttgccctt cctaaaaaat gagctgaaga tgacagtatt tttctttaca 240
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gcgttgcaga ggcccanggt ctcctgggtc ccggccacct gtccatattc cacatttgct 360
gactgtgctc cctgcactcc actcaagttg agagttcaaa tagtcttgaa ggggaatcag 420
cttcaggat 429

<210> 47
<211> 465
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 3

<221> misc_feature
<222> 285, 286
<223> n = G or A

<400> 47
ggaagtggtt ttggaggtga taactcacta tttttaggct agaacacaaa gaacaattag 60
tgaatttaag taagaaagtg gaagttatca actaatgtgc tattaaaaat attattttta 120
gtaagaggca tcctaggagt tacagaatgt ctacattcta cagaaatgtc ttcctctcaa 180
gtcttcagag agcaaaggtc acagctacct aaagtgtttc cacttcaagc acagattgta 240
tgcctgaaga ctacatacct tgcattatca accagttcag caagnncacc aaacaagaat 300
tcgtgagtgg ttctgaaatg ataaatacta aaagtcagca aaagaattat tgaagttata 360
attcctaata aaaagccatg gttataaaat atttaagttt tttgaaaaaa atcttaaaac 420
caccatttgc attgttttta tactactcaa ggctttccag agctc 465

<210> 48
<211> 426
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 4

<221> misc_feature
<222> 131
<223> n = A or G

<400> 48
tatgataggg aagatgcggc catcactggg atattttcaa atcccaagga catcagagtg 60
aagtgtcagt tgtcagatga ttttaaaagt tatgtcttca gagaaaaaaa gattcatttt 120
ctcattttaa nccaattaaa tattctgagt gagactaatc actcatttgc ctacgacctt 180
ttagaaaagt tgttttgttg aaatactgta cgtacgctta atctaaattt gcattgacta 240
tgttttagtg tatttataaa tggtgaactc agtttctgaa attaaacttc ttatttgcaa 300
ttttctagtg ctggcagaca ctggcttttt atttttagga taagaaaaca ggcatattct 360
ttgtggtcca ttatctagag cccatacttg ggcagcattt gaaatttcac cttaacccca 420
gacagg 426

<210> 49
<211> 533
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 5

<221> misc_feature
<222> 47, 50, 51, 52
<223> n = A or G

<221> misc_feature
<222> 111, 135, 185, 359
<223> n = T or C

<221> misc_feature
<222> 198
<223> n = T or G

<221> misc_feature
<222> 253
<223> n = C or A

<400> 49
tgcacagggt ttgatctctg agatgtttta tactctctgg cttgganaan nnacagtcct 60
gtagtatcaa gaccagacct tgtgtcccca gcccaaggct gccctgggcc nagggacagt 120
atttggagac ttcgntggca gttttgcgtt ggaatcacct ggtgcctccc tgtacgtcca 180

cccancctgt gcccagancc ccttcgcaag caccatatgc tgttagatcc tcgagcagcc 240
ttgtgggaca gcnaccctgg ggctggtatc accatttatg taagaaaaaa aaggaagtgc 300
tggcccaggg tcccacagcc agcaagttgg agctgcactg cccaagcagg tcctttagnc 360
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gcaggattcc ttagagaagc tgaagggttt gggtcctcag ctcctggccg gggcaagtct 480
ggccaagcag catggcagcg atgaagtcca catgatcgaa gggtggatgc tta 533

<210> 50
<211> 422
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 6

<221> misc_feature
<222> 131
<223> n = C or G

<400> 50
caaggcttga ctgaaggacc tcatccagag tcactatcag agctcgctcc agcactctcc 60
ttcatggagc cccagggtca gcagtggaga gggtcagagc acccccacaa cccccacagc 120
gagatgacct nggctcgtct tgcctctgcc accagagctg tgactgtggg caagatattt 180
tacagcagga ccagtttctt gtccgaaggc agggctatta acaggaccta actcaggata 240
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ccaggccatc agcacacctg gagtgtgcag ggggaagctc tcagccccac cccagccctc 360
tttacaagac ccccgcgtgg cacctgtggc gtggcacctg tgtgcactcg tgttttcaaa 420
gc 422

<210> 51
<211> 411
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 7

<221> misc_feature
<222> 228, 230, 235, 236, 240, 243, 245
<223> n = A or T

<400> 51

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tattgtgcca tatgtcgttt ttagcaactt gcttttagct gacgttctgt tttcaagatt 180
catccatgtt gctgcataaa cctaacattc acttactgtt gctggtgnan aacannccan 240
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gtctgacaaa accaagagtt ggagaggatg tggatggctt ggaattttat ctgctccttt 360
acacccactc tggaaaaact gtacaaacaa ttctgcaagg atttttccag a 411

<210> 52
<211> 445
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 8

<221> misc_feature
<222> 84
<223> n = C or G

<221> misc_feature
<222> 265, 269
<223> n = T or C

<400> 52
tagtgaaaag ggcacacagc tgtaactcca gacatctccc tattgcatgg atctgcactt 60
gactggcagc ctagacagaa ggantgctat ttgtcttttc tggctgacag ctgagcagga 120
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ccctcttttg tttgtgctgt gaagttccca taccgtctgc catctcagca tctcctctgg 240
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aaggactgtg gctattagtt cttagaagcc ccaaagagcc cagtatgggc ctaggcttgc 360
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tgtaggagct tgaaacccag cagac 445

<210> 53
<211> 425
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 9

<221> misc_feature
<222> 136
<223> n = A or C

<221> misc_feature
<222> 385
<223> n = G or A

<400> 53
cctctccttc tctgcgtgac cttgggctgg gagccaccca ggaaatgttc tcgagaaatg 60
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tatagacaag gtgggnggag ccttcttgag gccccttgg gctctgacat ttcatgaacc 180
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ctcagtgcag agggctgagt gggctcttgt tcagacgggt ggtcagggag aggatgggtc 360
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gccct 425

<210> 54
<211> 424
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 10

<221> misc_feature
<222> 76
<223> n = C or G

<400> 54
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gacccacagc gcctgacctc aggctccctc tgggctgggc ctggtcccag gtgctgggat 180
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atatttctga caacctgtaa ctctgggcag gccgactgca gctgacccca gctactgcag 360
aaaatgaagc ccagacaaag gagagggcca cactgctccc aagtggtgga gctgttgttc 420
caat 424

<210> 55
<211> 393

<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.1

<221> misc_feature
<222> 157
<223> n = T or A

<400> 55
agatgcccct gacactgact caaggctcag agaaggcggg cacctgccta aggccacccg 60
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gggccctacc cactgattga ttggacctgt gcctccncca ggtgatggtc aagtggactt 180
tgaggagttt gtgacccttc tgggacccaa actctccacc tcagggatcc cagagaagtt 240
ccatggcacc gactttgata ctgtcttctg gaaggtatcc cctggctagt tgggacccag 300
ggctgtgcac actgtggagt tctgttctgg agccagtgaa tggctgggcc cacactgtaa 360
agggggggatg accacctcag gcttgtgtcc act 393

<210> 56
<211> 499
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.2

<221> misc_feature
<222> 103
<223> n = T or G

<400> 56
gaacccatgt cctccacatc cacaagtctc caaagggttg gggattcctt gtgtgagctc 60
cagatcccaa tcctctggtg gttcatggtg ttgtcaatga cangtctctc cttgtcaccc 120
cagtatgaaa atgaggagac ttacagggtg cgaacattcc agataggtac aggggagaaa 180
ctggtgaagg ccctggttcc agcctttctg ggtagaacca tctcctccta tgccacctgt 240
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agggttctta tgggaactaa atggcctaag gcatggcaag caggtcccaa gtgcctggct 480
ctgtgaaaag gctgctgag 499

<210> 57
<211> 399
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.3

<221> misc_feature
<222> 31
<223> n = C or G

<400> 57
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cagagcccct gaaagggcag aaattggtca gctcagcagc cactcacact ggatcttata 120
gaggttgctg gtttccttct tggacagcag ggtggagtgg gcatccttcc ggggatccac 180
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ggacagagga gttgaggggg acgcgcggag gttgggggag ccccagcaat tccatccact 300
tggatgtcct gctcccctag accagtgacc cacatttctg ggaacagggc cacggagtcc 360
tgtggcagct ccagactgtg aaatgctatt ggagccagc 399

<210> 58
<211> 365
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.4

<221> misc_feature
<222> 211
<223> n = T or C

<400> 58
ggggtagcag agtagtcccc agaacagggc tgggctgcat cccacatcca gagaggtgtg 60
ctgagtggac actaacatac cttattgttt ttgagcttgt tcatgcagtc catgagggct 120
gggtagccac ctgagaatcg ccacaggtgc actgttgggg gtgagaggta taggtcagtg 180
agctgctggg acccccagca gatgacctcc ncaaggttgg ctaagtggtg gggacggggg 240
aggcggggtg gcctggttcc ctgtagcagc aagactccct gagttccctc tgccttggtg 300
gaagaccatg ctggggaggg gatgacccta gacacaagtc taggagacct ggatttgagc 360
tccag 365

<210> 59
<211> 390
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.5

<221> misc_feature
<222> 77
<223> n = A or G

<400> 59
aatgaaccaa gcagagcaca gagcacagga gcacgacgag gatggtgcaa ggcacccgcc 60
aaatcctctg ggctccntga ctaaagctga gggaggaagt agccatcagg gtccctttgg 120
tgccgtctgg tctcggcact ccttggagct gatcactctc ttgctccctg cctaggcccc 180
tctccagaag gcccgatgcc cctgggtggg ggcgaggacg aggatgcaga ggaggcagta 240
gagcttcctg aggcctcggc ccccaaggcc gctctggagc ccaaggagtc caggagcccg 300
cagcaggtgg gacccacatg gaggcctgca gaacctgagc tgtgaactgg caaccctggc 360
tctggggccg agtcaccttg cacaaggagg 390

<210> 60
<211> 396
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.6

<221> misc_feature
<222> 131
<223> n = A or G

<221> misc_feature
<222> 239
<223> n = G or C

<221> misc_feature
<222> 254
<223> n = C or A

<221> misc_feature

<222> 283
<223> n = A or C

<400> 60
cccatgacac tggcttacct tgtgccaggc agatggcagc cacacagtgt ccaccggatg 60
gttgattttg aagcagagtt agcttgtcac ctgcctccct ttcccgggac aacagaagct 120
gacctctttg ntctcttgcg cagatgatga gtctccgggg ctctatgggt ttctgaatgt 180
catcgtccac tcagccactg gatttaagca gagttcaagt aagtactggt ttggggagna 240
gggttgcagc ggcngagcca gggtctccac ccaggaagga ctnatcgggc agggtgtggg 300
gaaacaggga ggttgttcag atgaccacgg gacacctttg accctggccg ctgtggagtg 360
tttgtgctgg ttgatgcctt ctgggtgtgg aattgt 396

<210> 61
<211> 368
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.7

<221> misc_feature
<222> 100
<223> n = A or G

<400> 61
cagagagcaa aggtcacagc tacctaaagt gtttccactt caagcacaga ttgtatgcct 60
gaagactaca taccttgcat tatcaaccag ttcagcaagn gcaccaaaca agaattcgtg 120
agtggttctg aaatgataaa tactaaaagt cagcaaaaga attattgaag ttataattcc 180
taataaaaag ccatggttat aaaatattta agttttttga aaaaaatctt aaaaccacca 240
tttgcattgt ttttatacta ctcaaggctt tccagagctc cccaactccc ctcaattgtt 300
aatctttaac aagtcctgcc atctattcag aaatgattat tcttcctatt ttgagttggg 360
aaacccac 368

<210> 62
<211> 451
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.8

<221> misc_feature

<222> 228
<223> n = A or G

<221> misc_feature
<222> 341
<223> n = G or T

<400> 62
gatgtacacc actccctgcc tcccgcttta gaaatgaaga aaccatggct cagaggggtg 60
tggaggctca cacagcatca cagggcccga agtggaggag ctgggatatg gacacaggcc 120
cacctgcctt cagaccagac ccctgtgccc ccagccgccc caccacccac agaccccaga 180
gggaggacgt caggcgtcca ggctggcacc tttagcttgg gcaggccncc gcggatggca 240
tctgcaatgg caactgcacc cttggagcgc accaggcagt ccccaaaatt aatcacctcc 300
acctgccgca aggtcttcaa ggtctgtgag ggggaagcaa nggtccagag tgagggtgca 360
gaccacaccc cagccctcag caagccccgg gggccccaca cggtcacatc ccaagccagc 420
caccacacac tgtcctcctc tgcaagtcac c 451

<210> 63
<211> 790
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.9

<221> misc_feature
<222> 300
<223> n = C or G

<221> misc_feature
<222> 696, 741
<223> n = C or T

<221> misc_feature
<222> 771
<223> n = A or T

<400> 63
ttagggaaga agggccaaag cactccttgt agcactcacc cctacccttc caagccaccc 60
cagccggtgt aggtacctgt cttcagcagc atcgctctgg actcagcttc cgaggacctg 120
accagatctg gtctgcgtgt atcagctgta tgtgttgggc tctggaagct aagaaacgtc 180
tgaaaagcac tggggtcacg gctgcctggc tagctcggcc gccctcaacc ttaggcgtgg 240

atcgtacact cggtccccaa gttgcccgcc ccatccccag ccatcacttc ccggagcttn 300
agttcttcct tcagaaatac gaaacaacgt gtcttggatg tcagacctca caccctctgc 360
agtgctggga gtcccgaggg cctacgggcc gccttcggcc ccgcccgggc tcagaaaaag 420
gcagccactg gcttaaggtc accaagaaag agcggagggg cggggctgcg gccaggctcc 480
ggacttccag ccgggtccgg gttcccgccc tgggctcccc aaaaccgcag agccccctcc 540
caccgcactt atcctaccga agcgttcaga cctgccgccg cttctgactc gaatccggta 600
acctgataag tccgaagcgt tccagtgagg gcggggcctc acgaaggcaa cccttcgcgc 660
aacctatcag aatccccccc agcaacgctg tgcccngccc atatgggtcc ggcctcccag 720
cctccctaag cccttcccca ntgggctccc gccctgcgtg ctagcgaggc nggcattggc 780
agaacggact 790

<210> 64
<211> 496
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.10

<221> misc_feature
<222> 378
<223> n = T or G

<400> 64
cttgtgaccc tccaaggaaa ggaaccagca ctcatcaagg tcccactggg caccaggtgc 60
tgggcttggc gtgctgtgtg ttatcccatt tcagcttccc agcaaccctc caagttagct 120
tcagccccca ccccgccccc attttacaga aggaaaacac aaggctcagg aagtcaggtg 180
ccacccaagg aaggtcctac ggctcaggga ggagcccagg tccaggtcct gggacctggg 240
tggtgggggc gtgcagagcc tgagctggga cccagtgctg aggttcagcg gggcccgagc 300
tgcagcacca ctgccccagg ctgaccgtac tgggggcccg gctaacctct gcctcctttc 360
cttctacctt cccagggnaa tgatgcggaa gagcctaagg gggtcaccag cgaaggtagt 420
agtccccgcc cctgcccgcc ctctcctttc cccagggctc tggcctcagg gcctaccctc 480
accctctccc cttcct 496

<210> 65
<211> 395
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.11

<221> misc_feature
<222> 137
<223> n = A or G

<400> 65
tagaaaggcc attcctcgtg agtataatca taaacccact cacaaaaatg gttcccaatg 60
tcaaagcccc tgggagaata aggtggacat tcagtcccca aatgccctgg gcagctggcc 120
tgttttcaag agccctntgg gaacagatct atgggaagcc atctttccag cctcacctat 180
agttataact gctgtactcg aagtccacca gcatgaggct gtcagcattt tctggctctg 240
agagcagcaa gatgttccct gggggaatgg ggtgaggttc tgctcactcc agagccctct 300
ggctcttcca tcttgggtta ggagactcag atgccttctc ctaccttcct ggatgtcatt 360
gtggcagaag acgactggcg atggggtaga ctcta 395

<210> 66
<211> 353
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.12

<221> misc_feature
<222> 249
<223> n = A or G

<400> 66
cattccttcc agactccacc tccctccttc ctcacaggat gggtcctgct ccccagcctc 60
tggcccacat acctgctgtt cttgagtggg gtagtctgtg ggccttgctt tgtagaaagg 120
ccattcctcg tgagtataat cataaaccca ctcacaaaaa tggttcccaa tgtcaaagcc 180
cctgggagaa taaggtggac attcagtccc caaatgccct gggcagctgg cctgttttca 240
agagccctnt gggaacagat ctatgggaag ccatctttcc agcctcacct atagttataa 300
ctgctgtact cgaagtccac cagcatgagg ctgtcagcat tttctggctc tga 353

<210> 67
<211> 598
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.13

<221> misc_feature

<222> 80, 206, 295, 373, 400, 479
<223> n = A or G

<221> misc_feature
<222> 315, 317, 318
<223> n = A or T

<400> 67
ccatctgagc tatttcccca cctctctcta cggtttaagg gcccagcagg agggagggag 60
caatcagact caagcctggn tgcaaatccc ggctctacca ctgctttcct gtctgatctg 120
aacgagttac ctaacctctc cgagcttatc tacaaaagct gaatgatcct tccctcatag 180
agctattgcg agaataagga gatggnggga ggtcacacca tccccaactt accaagggat 240
cttcctctga cagagactga gcaagatcca gctggtctga gctgtgtgga tctcnncctcc 300
agctgtgcac ctatntnnta accagacacg tcctccagcc cccaagatat acccaggaat 360
tcgaaaggta aantgaaagt cacaacttcc cagcagctcn caatcaagca cagcaaacac 420
gctgctcccc agcacctcct gcagtccagc cccaccctcc ttgctgctgc gcttagagna 480
gcagcctgag accagacctc caggtctctt tcatccaacc cacctgcctg gcatcctcgg 540
ggttgggggt ctgctatagt cttcaggaag aaagacctgc cactgacata ctgtggga 598

<210> 68
<211> 382
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.14

<221> misc_feature
<222> 48
<223> n = T or C

<221> misc_feature
<222> 154
<223> n = A or G

<400> 68
tgagagggac atcctcaagc ccagcagagg gggctgcctg gaggaggngt gcctgccaga 60
gaaaactagc ccggggagat ctgggtggca tcaccggggt gccccaagga ggtaacccca 120
tggaggttac ctgggcaatt cagccacacg cacnaatctc ttccaggctt catcgctagt 180
cagcaggatt ttcagatgca ctgggctaac tttcttctgg aagtattcaa tgacttcttc 240
agtgaagcgt ttcttttcta gttggaaaca aaaaggataa gattggaaga aagtttgcta 300
ccacataaat ggcattgagt ataaggtggt tcggtgttaa tcctcctgaa ccagctgtca 360

catggggtat ttttgatgga gg 382

<210> 69
<211> 398
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.15

<221> misc_feature
<222> 205
<223> n = C or G

<221> misc_feature
<222> 277
<223> n = T or A

<221> misc_feature
<222> 304
<223> n = T or C

<400> 69
cccttctcgc agctgattac ggtcacgtcg atcccgtctt tccagtctcc acgagacgga 60
gcccgggaaa agagtcgacc ccatgctctg ccgcccccgc accccacccc tcgggaatcc 120
ccaccgtctt tcccaatcac cttcttcttc tcaaggcctc ccatcgctcc acgttgagga 180
gccgactagg gccgcgcgta caggnagctc cacttcctcc cgcacgtgcc ctgccaagga 240
ccccgaggac cctccccacc ccacgctgtc tgtttgngcg ggctgcccaa tgagatgcct 300
gtanaagtcc agggaaagat ggggatttcc tcctcaagat ttaaaactat agtctgaaaa 360
aaatcactga gaacactctt tccagatctt tcccgctc 398

<210> 70
<211> 398
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.16

<221> misc_feature
<222> 117
<223> n = C or G

<400> 70
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agccccctac tctaccctgg ctacatgcag tgcccatctc tggggtcact gcagagnaga 120
cctggctaat gccacctct cttccggctg cctttcagga agaccatgct caatgacctc 180
ctgcggttcg atgtgaaaga ctgctcctgg tgcaggtggg tggccccgtg ctccagggcc 240
ctgcctttcc tcctagaaca cagtggcaca gtgctgggtc ccagttgcta gcagagtctc 300
tctcatcatg ggaagctaga aagaagcttc caggaggaga taaccacggc ctcagggatg 360
ccacatccag agccgccctg tcaggctgag gagatcaa 398

<210> 71
<211> 380
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.17

<221> misc_feature
<222> 37
<223> n = A or C

<221> misc_feature
<222> 329
<223> n = C or T

<221> misc_feature
<222> 350
<223> n = A or G

<400> 71
tgaatcctca tctggggaag tttcaagaat aaaagcngtc ccatctcagc agtctcgagt 60
gtggtgaaat gtgagcgggc cctgtgaggc cggggctgag ctgtcctctc cccctgcagg 120
tggcccagag tggcgagatc cccccatctt gctgcaactt ccccgtggct gtgtgccggg 180
acaagatgtt tgtattctct gggcaaagcg gagccaaaat aaccaacaac ctcttccagt 240
ttgaattcaa ggacaagacg tgagtactct ggccagtggg gtggagggag gacggtcagt 300
tccctcgaat ccttctgaat atgaagaang cctcttgcac ctggtggccn tggtaaccat 360
ccttgtgagc tctgcaaaca 380

<210> 72
<211> 698
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.18

<221> misc_feature
<222> 653
<223> n = C or T

<400> 72
cagaagcatg gaattgctga caagcacaga gcttggcgtg gggttggagg ttgcatcagt 60
ctcctgcggt tgctgtagcg aagggctgca aactgggtgg tttggagcag cagacaggta 120
ctcacagctt tgagggccaa gagtcccatc taaggtgtca gcaagggcag tgccctcaga 180
gcctcagggg tgggtccttc ctgcctcttc caatttctgg tggtgcccag agttccttga 240
agtcccttgg ctcgcagctg tatcactctg ccttggtctt tacctgccgc cttccctcgg 300
catctgtgtc ttcacacggc cctcttgtaa ggacaccagt cattgcgtta gggcccaccc 360
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gtcacattcc cagtgctggc agttaggacc tcagtgtatc tttgcgggga cacagttcaa 480
cctgctaccc atccatcatt ttgtattctg agatcttttt ttctgttttt agctatgtga 540
aaggcatcta ctcttttggc ttgatggaaa ccaacttcta cgaccaggca gaaaaactcg 600
ccaaagaggt aagtgggtcc ttcctaaggt gcctgacccc tcagggagta gcngttggct 660
ggaccagggc atatgagggg caccattcgt gtgtgacc 698

<210> 73
<211> 698
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.19

<221> misc_feature
<222> 257
<223> n = A or G

<400> 73
gggggttgtc ttttgcatag agaccatgac caggtctggg acagaggaaa gtcaaataaa 60
tcacacatta gagttagaag cagaggctca ggctgagccc aggtttatta tccaaaatca 120
aaatgaaatg cagtgattaa aggacacaag gcctcagtgt gcatcattct cattgtggct 180
ttcaggcggc tgtggaagac agggtgggga tggtggcttc gggaggtgag gtgctctggg 240
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agaaatgaaa atgctttgtg gactgctgag gacggtgcaa gggtgaggtt tcccagctca 360
ccggatcatg gccagcaccc agggcatcag cttctgcttt atggtggggt ctgcaggtgg 420
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tgcctccacg cgctgccgcc atgtggccag cttgggtcgg ccttcgaaga cttggcagcc 540
agcacccacg ggctgtgggg aaaagggtac agactgggga tggatggttg tgagggcagg 600
gatgggcagc atctgatttg gggaccacag atctccagga ggtgtttgca cacacactta 660
agcacagtgc catagcccgg tgtggcagca taagcagg 698

<210> 74
<211> 395
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.20

<221> misc_feature
<222> 98
<223> n = C or G

<221> misc_feature
<222> 114
<223> n = G or A

<400> 74
ctcctctgtc cctcctcaga cccctcctcc tcctcccaca cgcccactgt aaagggctcc 60
tgcgtcagga gctgccaggc cgagggccag ggcacccnga ggacagctgc tccngcagca 120
ctcacccgat gcatgtcttc atacttgaga aaaagcacgt tcgagtccat gcggtgctcc 180
cagaactcct gcacgtgctc aaaccaggag ccgtagccca ctgcggagac aggggacagg 240
gtgagccaca cggctgggca ggagaagcgc acacatgggg ccatccccac cccacagggc 300
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caaaggcccc cgaggcactc acgtcttgag ccatc 395

<210> 75
<211> 383
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.21

<221> misc_feature
<222> 21
<223> n = C or T

<221> misc_feature
<222> 61
<223> n = A or G

<221> misc_feature
<222> 83, 84, 85, 86
<223> n = C or deletion

<400> 75
ctggactgga ggccaaagtc ntgcggggaa cgtgcgggaa gagcagagcg tgcaggcagc 60
ngagactaac aagaagccct ggnnnnagag ggcaggaaca ggtggacgaa caaccagatg 120
agagaacgta ccaggcatgc aagctagacc caggaatcaa cgggctgagg cttagcgtcc 180
cctacggcgt ccaccagcct gaccgcgggc ctgctgggcc cgggggggagg ggccttcctg 240
ctggggtcga gctgcagcgc acgggtgggc attagaggca caatagagca ggttagttag 300
agctcctggg gggacagggc aggggcaggg ccgaggctgg cgatgtaagg gttggcctgc 360
caggacagca caggtagcac caa 383

<210> 76
<211> 385
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.22

<400> 76
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gactgctgga ttgtccaggc agggctattg atgccagccc cttaacttaa ttctgcccag 180
acaagaagat gtttgaggtg aagcggcggg agcagctgtt ggcactgaag aacctggcac 240
agctgaacga catccaccag cagtacaaga tccttgatgt catgctcaag gggctcttta 300
aggtgtgtgc aggcaggggg cagctcatgg caggtccagt ctttgatcta ggcactgatg 360
ggtaaacagg agttccctaa cgggt 385

<210> 77
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.23

<400> 77
acaggagttc cctaacgggt tggtgttcag ggacagggga actgcgcaca cgtaagactt 60
gaagtggggt ttaaataaat ggggatggga gcagtctgtg atgggcactg cgaagccact 120
cagccctggc gggattccct caggtgctgg aggactcccg gacagtgctc accgctgctg 180
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ctgccccgcc ctgtcctccg caccacccga tcttctctag ctgctccttc tctcctgttc 300
ttgtcactct ttttttctcc ccggaagtgc cctcttgtgg caccttctaa gtggtcc 357

<210> 78
<211> 355
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.24

<221> misc_feature
<222> 183, 256, 284, 327
<223> n = C or T

<400> 78
gcagagatca gagcatcgaa taatggttgc taaaatatct tggaaaagga aacagtccta 60
tccagatgaa atgtgttcat accgtagaca tgacagagac cagctcttgt tcagtgcccc 120
ctacctgctg gctgcttcct cggctcctcg aacagatcag ccgagcttat ggaggaactt 180
gcngacagcc tctctaggcg ggccctggtc tcatactaga gaagacaagg aaaaggaaat 240
gttaggctcc aaagantgtg ggcagttttg caaaaagaat cacngaagag ctgtcatttg 300
aaagtgtttg acccccaggc tctttcnttc caacagttac tgaatgccac tgcca 355

<210> 79
<211> 399
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.25

<221> misc_feature
<222> 279
<223> n = A or G

<400> 79
ccttagaagc ctggaactct tgttaaatag gtagctattt gtatgaacag gaaactgagt 60

cagcttatta ggaaatgata agattctgca gaagaacata ttgtatagtt ttccgtagaa 120
agaggagagg cttaattcct ttttgttttg aacttagatc aaattactca ttaaacaaga 180
tgatgacctt gaagttcccg cctatgaaga catcttcagg gatgaagagg aggatgaaga 240
gcattcagga aatgacagtg atgggtcaga gccttctgng aagcgcacac ggttagaaga 300
ggtgagtttg ggtctctcac agctatccca gaggaacttg cactcccaga ggtcggaggt 360
catcctgaag cctgccaggc caaggtgtac tgagggcag 399

<210> 80
<211> 379
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.26

<221> misc_feature
<222> 44
<223> n = C or T

<400> 80
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tgtaactgtc tttgttgatc cttcttgcag acttgggcat agacctcggg cctggtccct 120
gcaaggagcg ggtgtgaatg ctccacggcc ccttagctac ctgtgacacc ttgtgcccac 180
aggttccgta gtaagatgga agctgctggc ttcactatct cgggagccag tcaccccatc 240
tgccctgtga tgctgggtga tgcccggctg gcctctcgca tggcggatga catgctgaag 300
agaggtaagg gtgctgagac aagggaactg gtggtgggtc ctgagagaag agaaagggaa 360
acccctagac tgtgaccca 379

<210> 81
<211> 398
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.27

<221> misc_feature
<222> 346
<223> n = C or G

<400> 81
gccagcatta aataaaagag ccaggaatta aaattttagt gtcctaatgc ctctacataa 60

tttgccgtat tttcctttca tggcttagct ataggaaatt taccctctgg gctctctcat 120
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<210> 82
<211> 371
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.28

<221> misc_feature
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<223> n = A or G

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aaacgtgaca t 371

<210> 83
<211> 395
<212> DNA
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<220>
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<221> misc_feature
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<400> 83
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<211> 328
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.30

<221> misc_feature
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<211> 483
<212> DNA
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<400> 85
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